Comparisons of Job Characteristics

Focus Occupation: Conservation Scientists (19-1031)
Associated Occupation: Environmental Engineering Technicians (17-3025)

Compare Knowledge
Compare Skills
Compare Abilities
Compare Detailed Work Activities
Compare Tools and Technologies

<<	Focus occupation element is much lower
<	Focus occupation element is lower
0	Focus occupation element is at a similar level
>	Focus occupation element is at a higher level
>>	Focus occupation element is at a much higher level

Knowledge

Similarity of Focus Occupation to Associated Occupation: 55

Focus Occupation: Conservation Scientists (19-1031)
Associated Occupation: Environmental Engineering Technicians (17-3025)

Associated Occupation's Key Knowledge Elements	Average Rating, All Occupations	Associated Occupation's Rating	Focus Occupation's Rating	Evaluation of Focus Occupation	
Engineering and Technology	5.7	15.8	10.0	<<	Extensive education and/or training may be required
Design	5.2	11.1	8.8	<	Expanded education and/or training may be required
Building and Construction	4.0	10.6	6.9	<<	Extensive education and/or training may be required
Physics	4.3	10.2	7.5	<<	Extensive education and/or training may be required
Law and Government	5.9	9.5	11.4	>	Current knowledge level is likely sufficient
Biology	3.7	6.8	16.2	>>	Current knowledge level is likely more than sufficient

The maximum possible rating is 25.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O*NET (Occupation Information Network) data.

Skills

Similarity of Focus Occupation to Associated Occupation: 79

Focus Occupation: Conservation Scientists (19-1031)
Associated Occupation: Environmental Engineering Technicians (17-3025)

Associated Occupation's Key Skills Elements	Average Rating, All Occupations	Associated Occupation's Rating	Focus Occupation's Rating	Evaluation of Focus Occupation	
Reading Comprehension	10.7	16.3	13.2	<	A higher skill level may be required
Critical Thinking	10.8	14.5	12.8	<	A higher skill level may be required
Active Learning	8.7	12.6	10.3	<	A higher skill level may be required
Mathematics	6.2	11.3	7.4	<<	Extensive development of skills in this area may be required
Quality Control Analysis	5.9	9.7	6.6	<<	Extensive development of skills in this area may be required

Management of Material Resources	3.7	6.8	4.7	<<	Extensive development of skills in this area may be required

The maximum possible rating is 25.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O*NET (Occupation Information Network) data.

Abilities

Similarity of Focus Occupation to Associated Occupation: 92

Focus Occupation: Conservation Scientists (19-1031)
Associated Occupation: Environmental Engineering Technicians (17-3025)

Associated Occupation's Key Abilities Elements	Average Rating, All Occupations	Associated Occupation's Rating	Focus Occupation's Rating	Evaluation of Focus Occupation	
Written Comprehension	11.0	16.6	13.7	<	Some improvement in abilities may be required
Problem Sensitivity	11.1	15.9	13.0	<	Some improvement in abilities may be required
Near Vision	11.1	14.7	11.6	<<	Extensive improvement in abilities may be required
Deductive Reasoning	10.6	14.5	12.6	<	Some improvement in abilities may be required
Inductive Reasoning	10.2	13.6	12.2	<	Some improvement in abilities may be required
Information Ordering	9.9	13.3	11.2	<	Some improvement in abilities may be required
Category Flexibility	9.0	11.8	10.2	<	Some improvement in abilities may be required
Mathematical Reasoning	6.3	10.6	8.1	<<	Extensive improvement in abilities may be required
Number Facility	6.3	10.6	8.1	<<	Extensive improvement in abilities may be required

The maximum possible rating is 25.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O*NET (Occupation Information Network) data.

Activities that Both Occupations Have in Common

Similarity of Focus Occupation to Associated Occupation: 73

Focus Occupation: Conservation Scientists (19-1031)
Associated Occupation: Environmental Engineering Technicians (17-3025)

Work Activities	Exclusivity of Activity
Analyze scientific research data or investigative findings	27
Calculate engineering specifications	64
Communicate technical information	4
Develop plans for programs or projects	31
Explain complex mathematical information	30
Maintain records, reports, or files	5
Prepare technical reports or related documentation	22
Record test results, test procedures, or inspection data	48

Use building or land use regulations	65
Use government regulations	44
Use pollution control techniques	62
Use scientific research methodology	21

Not all positions in these occupations will necessarily perform all of the listed activities. The exclusivity rating is an indication of how unique the activity is amongst all occupations. The maximum rating is 100. High scores indicate that only a small number of occupations engage in that activity.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O*NET (Occupation Information Network) data.

Tools and Technologies that Both Occupations Have in Common

Similarity of Focus Occupation to Associated Occupation: 87

Focus Occupation: Conservation Scientists (19-1031)
Associated Occupation: Environmental Engineering Technicians (17-3025)

Tools and Technologies	Exclusivity
Audio and visual equipment	4
Cameras	2
Computers	1
Content authoring and editing software	1
Data management and query software	1
Industry specific software	1
Information exchange software	1
Network applications software	1
Sampling equipment	12
Soil measuring equipment	20

Not all positions in these occupations will necessarily use all of the listed tools and technologies. The exclusivity rating is an indication of how unique the tool or technology is amongst all occupations. The maximum rating is 100. High scores indicate that only a small number of occupations use that tool or technology.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O*NET (Occupation Information Network) data.